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Figure 1

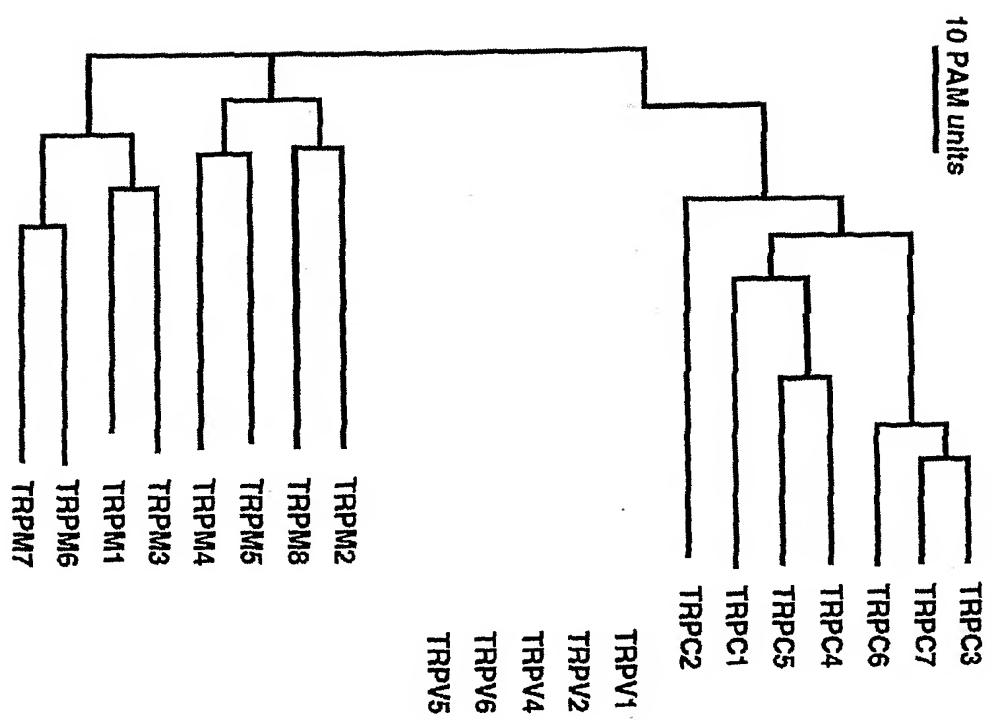


Figure 2

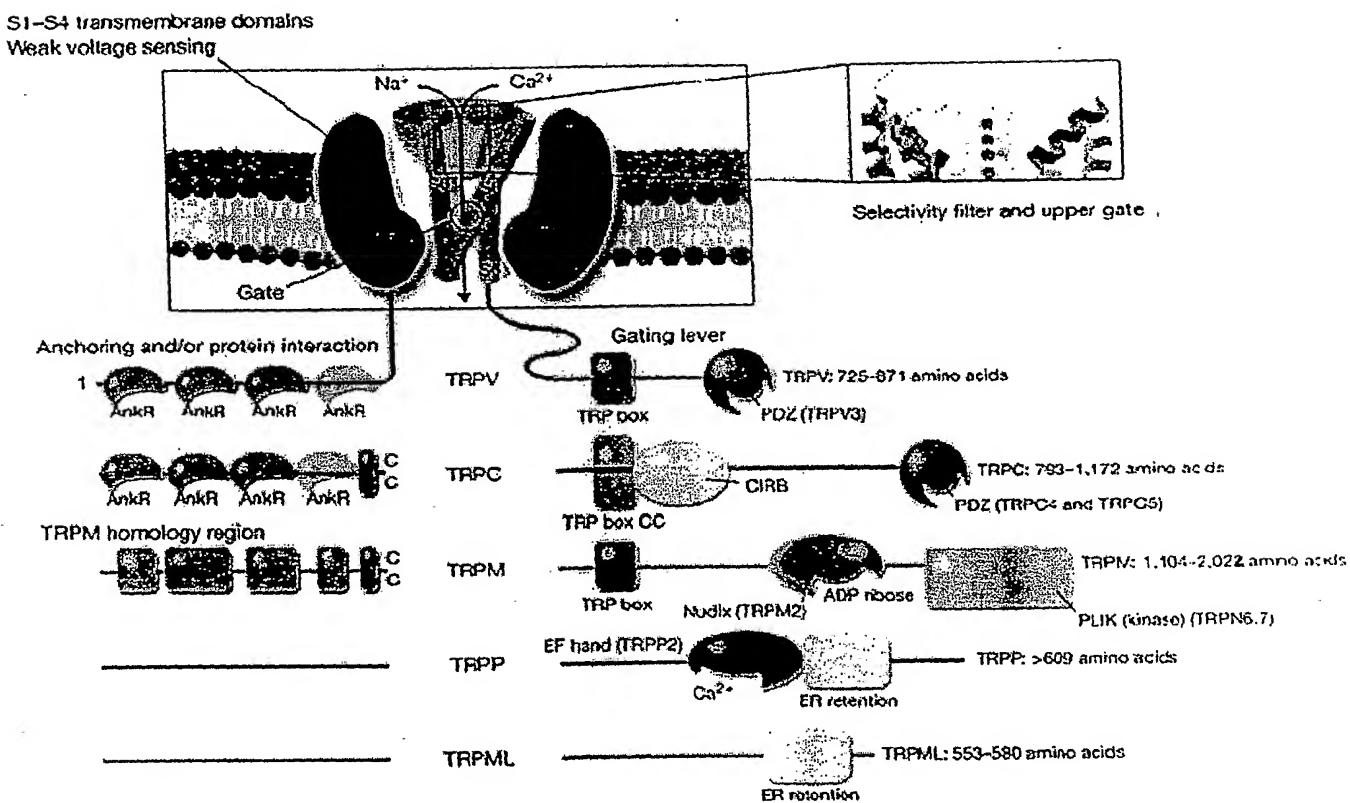


Figure 3

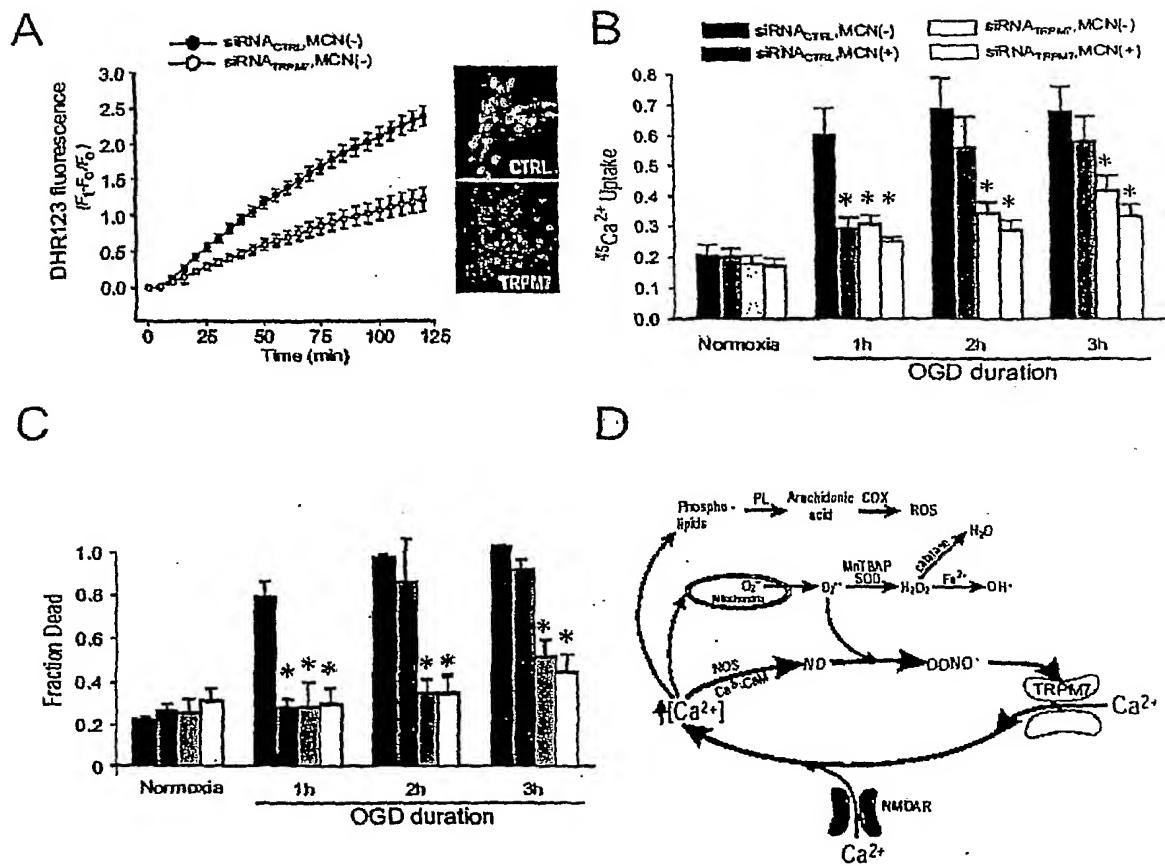


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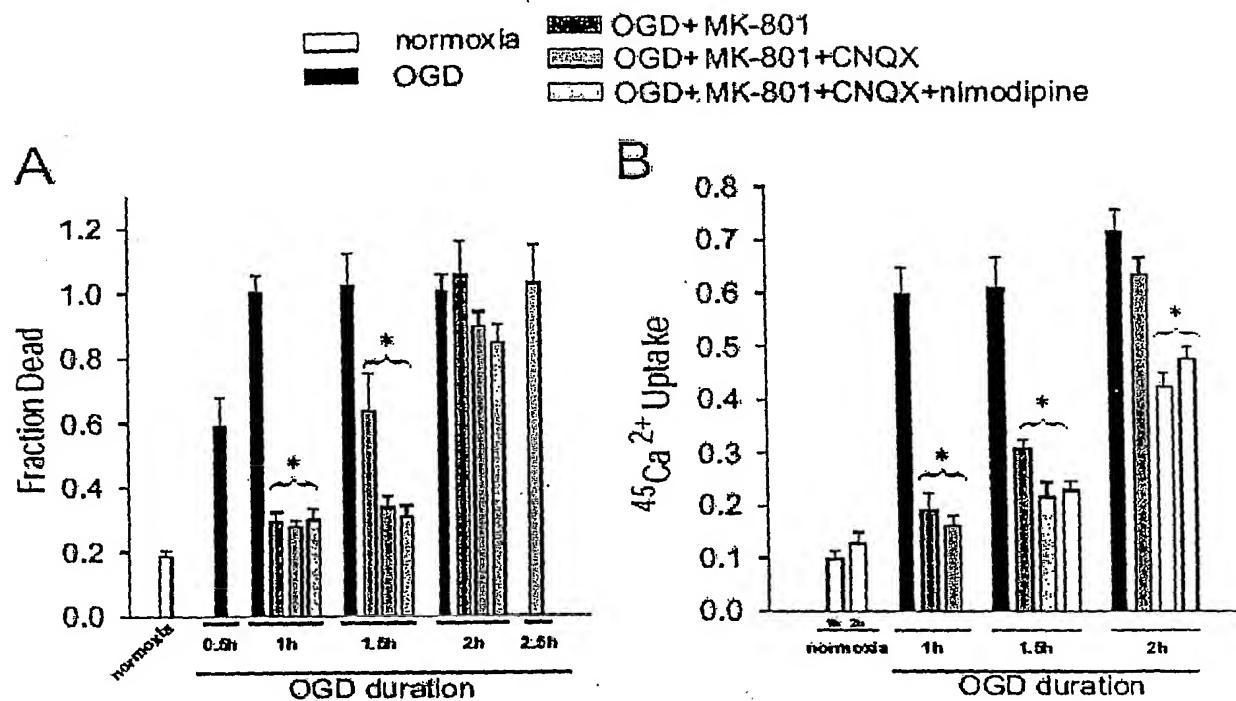


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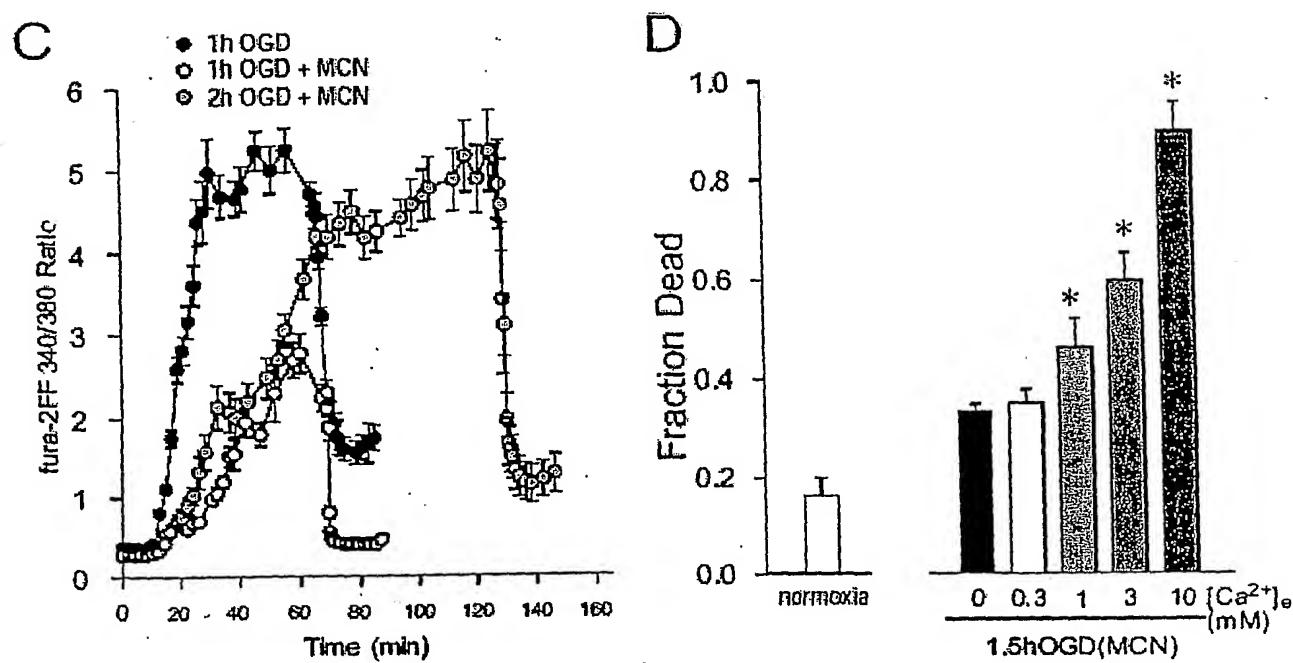
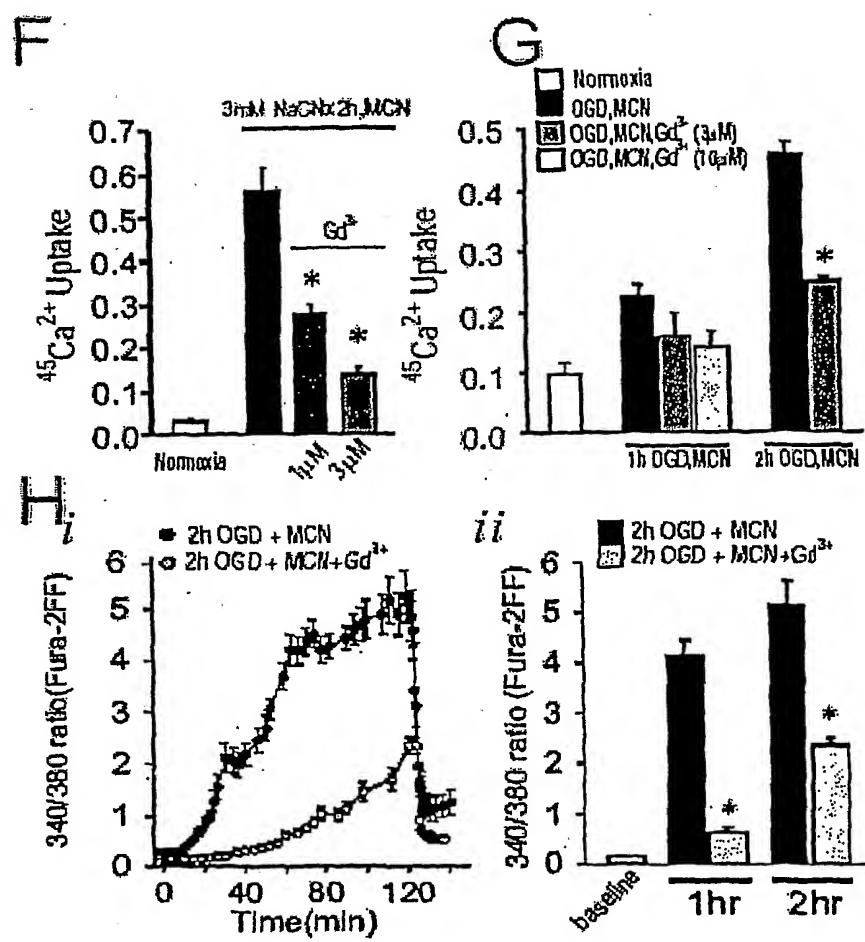


Figure 6



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Figure 7

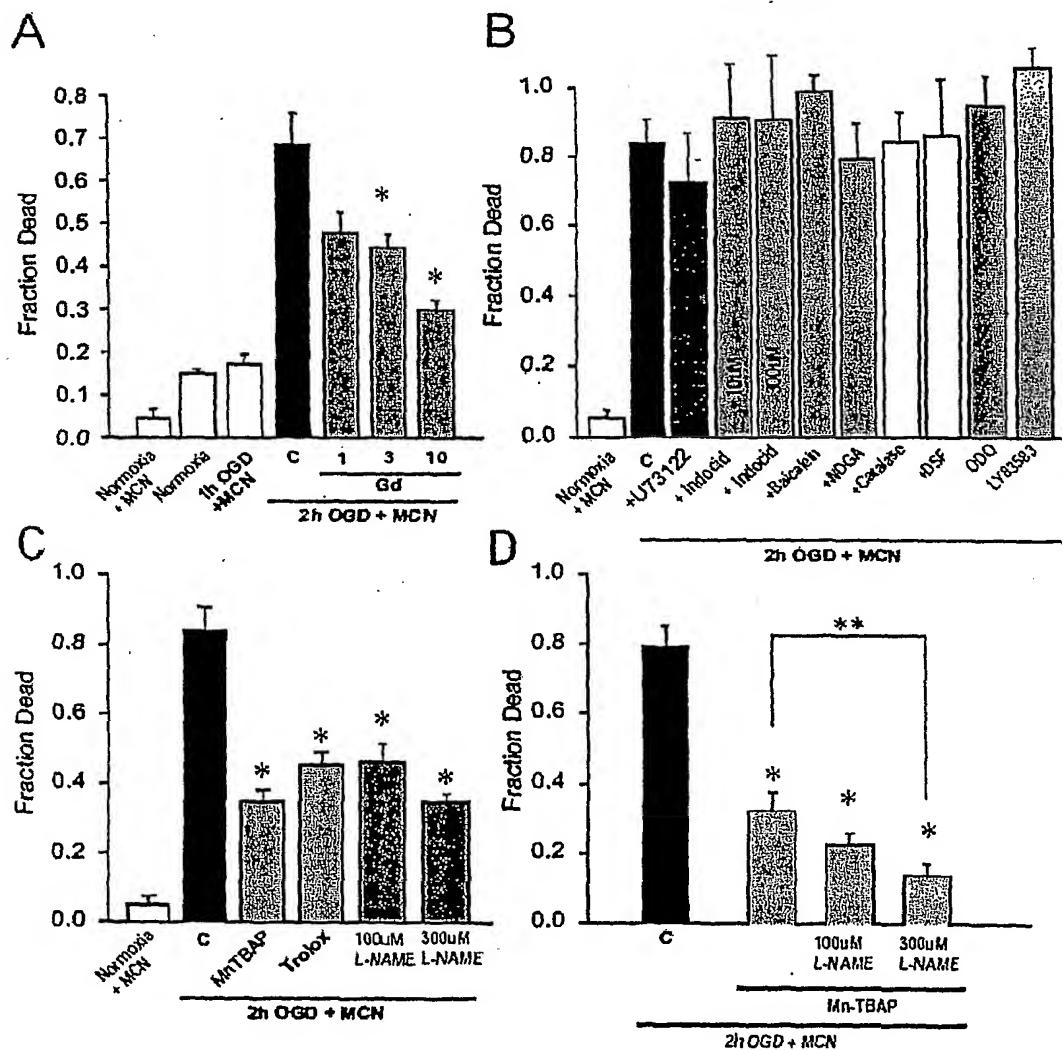
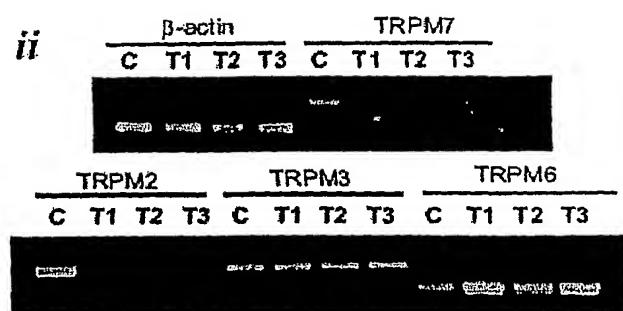
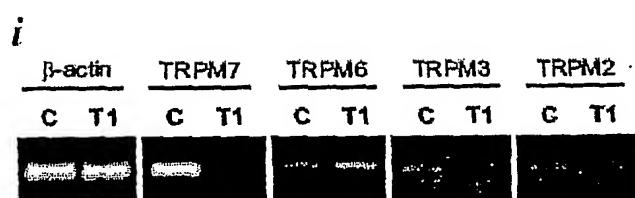


Figure 8



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Fig. 9A Titration: TRPM7 peptide/ RIM2 d1

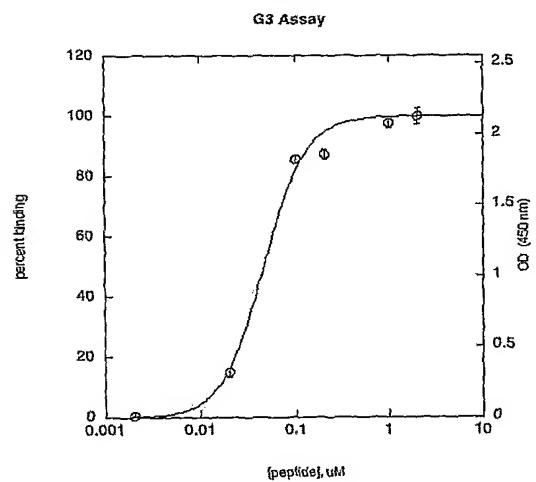


Fig. 9C Titration: TRPM7 peptide/ ZO-1 d2

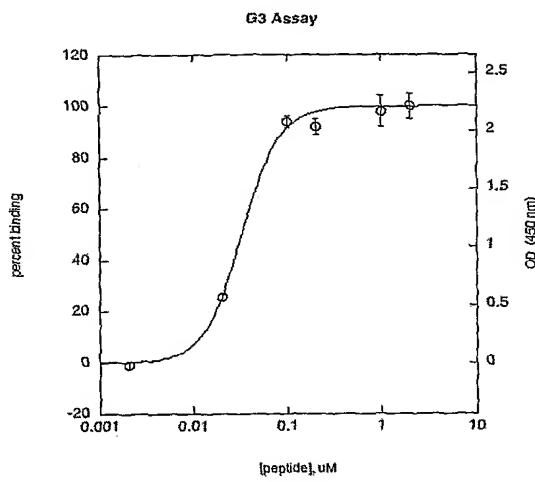


Fig. 9B Titration: TRPM7 peptide/ INADL d3

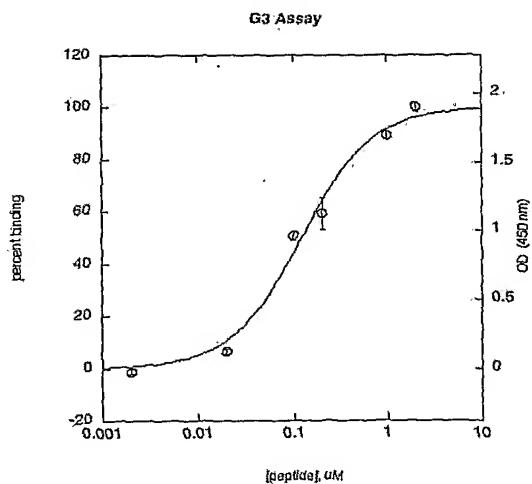
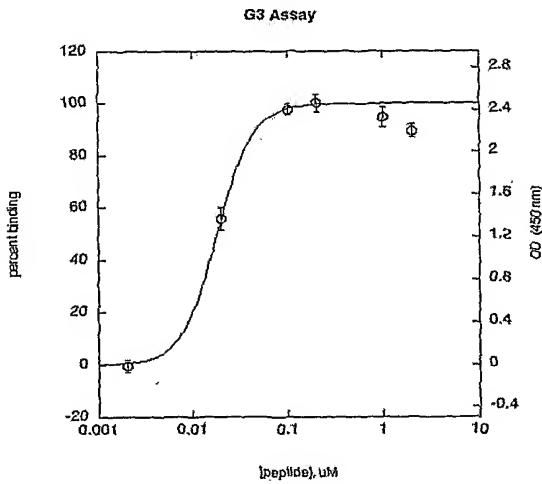


Fig. 9D Titration: TRPM7 peptide/ Par3 d3



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Figure 10A

Titration: Peptide 1829/ ZO-1 d2

G3 Assay

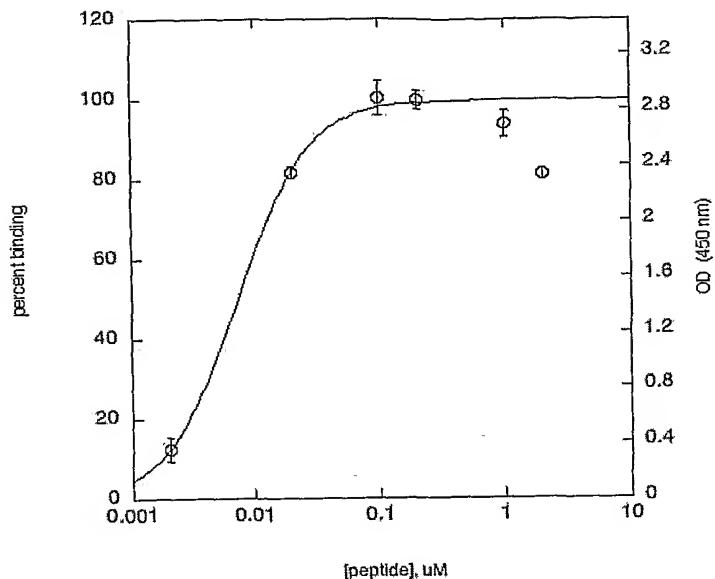
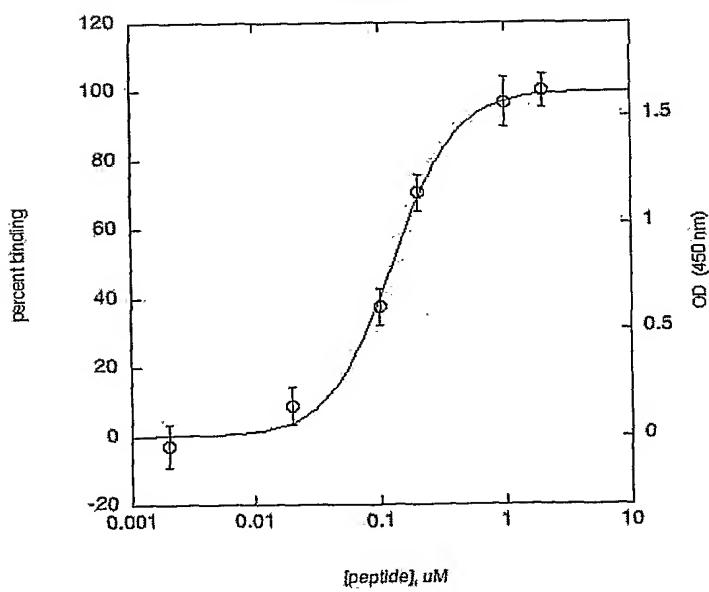


Figure 10B

Titration: Peptide 1839/ INADL d3

G3 Assay



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Layout of construct

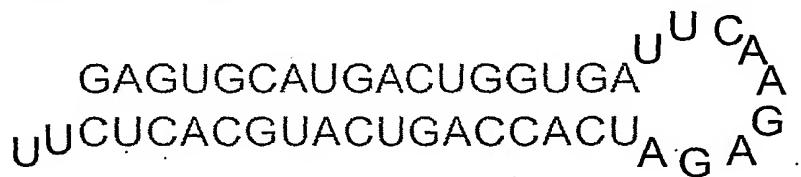
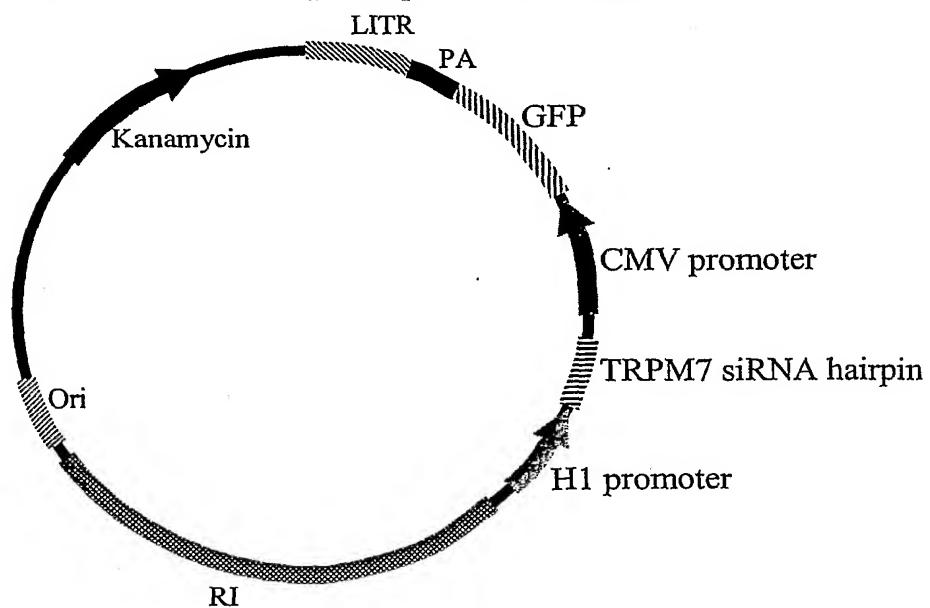
Enzyme site (EcoRI) – H1 promoter – enzyme site (BamHI) – sense siRNA – loop – antisense siRNA – termination sequence – enzyme site (HindIII)

Sequence of Construct

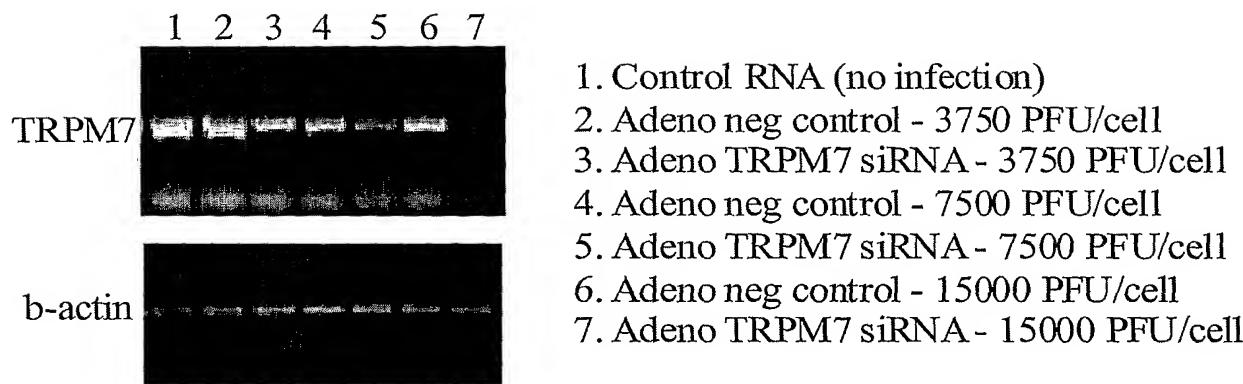
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 AATTCAAGAGAATTCAACAGTCATGCACCTTTGGAAAAGCTT

siRNA Hairpin sequence

GAGUGCAUGACUGGUGAAUUUCAAGAGAAUUCACCAGUCAUGCACUCUU

**TRPM7 siRNA hairpin in pAdTrack vector****FIGURE 11**

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**FIGURE 12**

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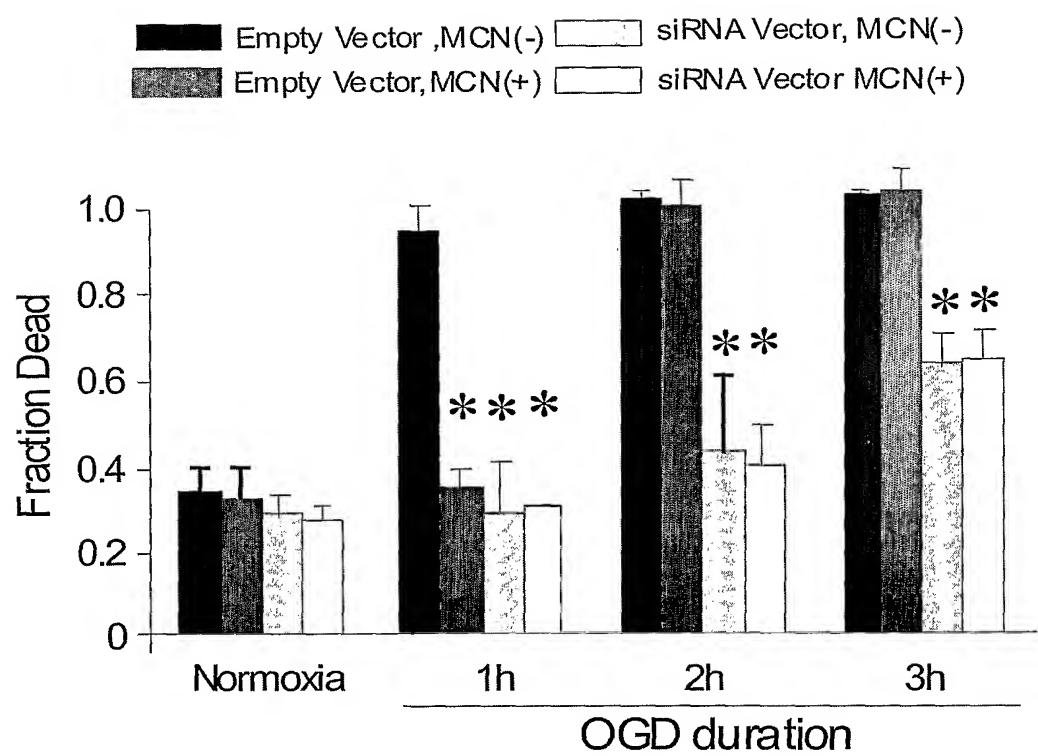
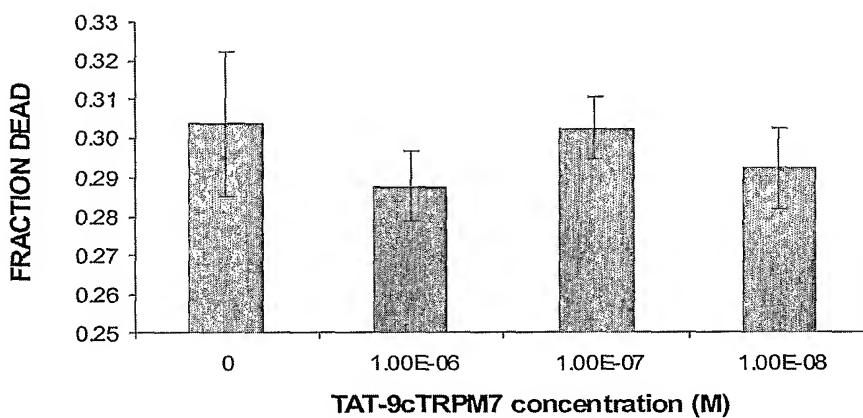


FIGURE 13

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A

TAT-9cTRPM7 in HEPES (24 hour incubation)



B

NMDA toxicity assay (normalized to 0uM NMDA)

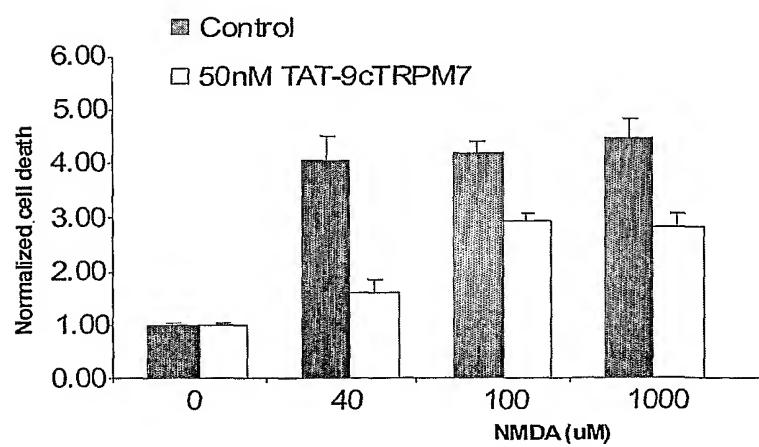


FIGURE 14